

CLAIMS

1. A database management apparatus comprising;
 - a extracting unit that extracts detailed information on
5 at least one of a class and a property which is included in at
least one referenced dictionary and which is referenced to by
a referencing dictionary,
the referencing dictionary having a hierarchical
structure in which a lower class inherits a property of an upper
10 class,
each of the class and the property having an
identifier which uniquely identifies each of the class and the
property,
the referenced dictionary having a referencing
15 relation described by the identifier as a pointer with the
referencing dictionary,
a adding unit that adds the extracted detailed
information to the referencing dictionary,
and
20 an output unit that outputs added referencing dictionary.
2. The apparatus according to claim 1, wherein the detailed
information includes one of a name and a definition concerning
the class or the property.
- 25 3. The apparatus according to claim 1, wherein the adding
unit organizes the referencing dictionary by adding detailed
information on the property referenced to in the referenced
dictionary to the referencing dictionary.
- 30 4. The apparatus according to claim 1, wherein the adding
unit organizes the referencing dictionary by adding detailed
information on the property which is referenced to, and detailed
information on the class which defines the property in the

referenced dictionary to the referencing dictionary.

- 5 5. The apparatus according to claim 1, wherein the adding unit organizes the referencing dictionary by adding detailed information on the property which is referenced to, detailed information on the class which defines the property, and detailed information on a supplier in the referenced dictionary to the referencing dictionary.
- 10 6. The apparatus according to claim 1, further comprising a dictionary displaying unit that displays organized content of the referencing dictionary in the hierarchical structure including a referencing relation.
- 15 7. The apparatus according to claim 1, further comprising a dictionary data organizing scheme adding unit that adds information on a specifying scheme of an extraction extent of at least one of the referenced dictionary which the referencing dictionary references to, to the referencing dictionary, when
20 a part of the referenced dictionary is extracted for an organization of the referenced dictionary.
- 25 8. The apparatus according to claim 7, further comprising a dictionary data organizing scheme specifying unit, that brings about a specification of the information on the specifying scheme of the extraction extent of the referenced dictionary to be added to the referencing dictionary.
- 30 9. The apparatus according to claim 1, further comprising: an input unit that accepts an input of the organized referencing dictionary;
 a dictionary data organizing scheme determining unit that makes determination on the information on the specifying scheme

of the extraction extent of the referenced dictionary included in the accepted referencing dictionary, and

5 a dictionary database structuring unit that structures the referencing dictionary according to one of a result of the determination by the dictionary data organizing scheme
determining unit and a previously stored version of the
information on the specifying scheme of the extraction extent
of the referenced dictionary.

10 10. The apparatus according to claim 9, wherein the dictionary data organizing scheme determining unit makes determination by reading out the information on the specifying scheme of the extraction extent of the referenced dictionary to be added to the referencing dictionary.

15 11. The apparatus according to claim 9, further comprising;
a duplicate data processing specifying unit that
previously specifies which is to be put precedence between the
result of determination by the dictionary data organizing
20 scheme determining unit and the previously stored version of the information on the specifying scheme of the extraction extent of the referenced dictionary, when data in the result of determination is not consistent with corresponding data in the information on the specifying scheme.

25 12. The apparatus according to claim 7, further comprising
a dictionary data organizing scheme displaying unit that displays the information on the specifying scheme of the extraction extent for at least one of the referenced dictionary
30 which is referenced to by the referencing dictionary.

13. A method for managing a database, comprising:
extracting detailed information on at least one of a class

and a property which is included in at least one referenced dictionary and which is referenced to by the referencing dictionary,

5 the referencing dictionary having a hierarchical structure in which a lower class inherits a property of an upper class,

 each of the class and the property having an identifier which uniquely identifies each of the class and the property,

10 the referenced dictionary having a referencing relation described by the identifier as a pointer with the referencing dictionary;

 adding the extracted detailed information to the referencing dictionary,

15 and

 outputting added referencing dictionary.